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DATE MAILED: 11/28/2003

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/437,584 11/09/1999		MICHAEL HOWARD	MS1-379US	8187	
· 22801	7590 11/28/2003	EXAMINER			
LEE & HAY	YES PLLC RSIDE AVENUE SUITE	HENEGHAN, MATTHEW E			
SPOKANE,		300	ART UNIT	PAPER NUMBER	
			2134		

Please find below and/or attached an Office communication concerning this application or proceeding.

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			Applicatio	n No.	pplicant(s)	· /			
Office Action Summan.			09/437,58	1	HOWARD ET AL.				
Office Action Summary		Examiner	-	Art Unit					
			Matthew H	_	2134				
Period fo	The MAILING DATE of this commu or Reply	nication app	ears on the	cover sheet with the o	correspondence addres	S			
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUN nsions of time may be available under the provisior SIX (6) MONTHS from the mailing date of this comperiod for reply specified above is less than thirty period for reply is specified above, the maximum reto reply within the set or extended period for reply received by the Office later than three months ad patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.13 nmunication. (30) days, a reply statutory period w. ly will, by statute,	36(a). In no ever within the statu ill apply and will cause the appli	nt, however, may a reply be tir cory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed /s will be considered timely. the mailing date of this community (35 U.S.C. § 133).	nication.			
1)🛛	Responsive to communication(s) fi	led on <u>05 No</u>	ovember 20	<u>03</u> .					
2a)⊠	This action is FINAL .	2b) This a	action is no	n-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠	Claim(s) 1-31 is/are pending in the	application.							
·	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-31</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)[Claim(s) are subject to restr	iction and/or	election re	quirement.					
Applicati	on Papers								
9)	The specification is objected to by t	he Examiner	r.						
10)⊠	The drawing(s) filed on <u>9 Novembe</u>	<u>r 1999</u> is/are	e: a) <u>□</u> acc	epted or b)⊠ objecte	ed to by the Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
=	Replacement drawing sheet(s) includir	•	•		•				
•	The oath or declaration is objected	to by the Ex	aminer. No	te the attached Office	Action or form PTO-1	52.			
-	ınder 35 U.S.C. §§ 119 and 120								
* 5 13)	Acknowledgment is made of a clair All b) Some * c) None of: 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copies application from the Internative the attached detailed Office active the attach	y documents y documents s of the prior ional Bureau ion for a list of for domestic ed in the firs	s have beer s have beer ity docume I (PCT Rule of the certif c priority un st sentence	n received. In received in Applications have been received 17.2(a)). It is decopies not received der 35 U.S.C. § 119(of the specification of	ion No ed in this National Staged. e) (to a provisional appring an Application Data	olication)			
	Acknowledgment is made of a claim					ecific			
	eference was included in the first se								
Attachmen	t(s)								
2) Notic	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review mation Disclosure Statement(s) (PTO-1449)		·		/ (PTO-413) Paper No(s) Patent Application (PTO-152				

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DETAILED ACTION

1. Applicant has submitted amendments in response to the first office action to claims 18 and 26. Claims 1-31 have been examined.

Drawings

- 2. In view of applicant's amendments to the specification, all objections under 37 CFR 1.84(p)(5) are withdrawn.
- 3. The drawings are objected to under 37 CFR 1.84(g) because the margins are out of specification in Figure 2, as previously noted in Form PTO-948, the Draftperson's Report. The objection to the drawings will not be held in abeyance.

Specification

4. In view of applicant's amendments to the specification, the objections to the specification are withdrawn.

Claim Rejections - 35 USC § 101

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5. In view of applicant's amendments to claims 18 and 26, the rejections under 35 U.S.C. 101 to claims 18-21 and 26-31 are withdrawn.

Claim Rejections - 35 USC § 102

- 6. All rejections under 35 U.S.C. 102 and 35 U.S.C. 103 are being repeated from the previous office action.
- 7. Claims 1-11 and 13-30 are rejected under 35 U.S.C. 102(a) as being anticipated by U.S. Patent No. 5,884,033 to Duvall et al.

As per claims 1, 2, 6, and 18, *Duvall* defines a plurality of unwanted input strings to be filtered (see column 3, line 64 to column 4, line 11), a search pattern that permits variability, can search a portion of the string, and has wildcard characters (see column 6, lines 28-42), receives an input string on a web server (see column 8, lines 18-27), evaluates the strings, and takes remedial action if necessary, including denying the request (see column 6, line 60 to column 7, line 13).

As per claims 3 and 19, the patterns described in *Duvall* (see column 6, lines 35-42) constitute a regular expression.

As per claims 4 and 20, *Duvall* discloses that the input string may be a URL (see column 5, lines 66-67).

As per claims 5 and 21, *Duvall* discloses that the input string may be an HTTP verb request, such as a GET request (see column 6, lines 19-25).

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As per claims 7-10, 13-16, 26, 27, 29, and 30, *Duvall* discloses that the search patterns may be stored in RAM (see column 4, lines 45-49).

As per claim 11, Duvall discloses that the product may be patched onto an application that is already running (see column 9, line 14 to column 11, line 20).

As per claims 17 and 22-25, the program is stored in a public directory (on a disk) before being installed (see column 10, lines 64-66).

As per claim 28, the list of patterns may be edited (see column 8, lines 1-9).

Claim Rejections - 35 USC § 103

8. Claims 12 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,884,033 to Duvall et al. in view of Oliver et al., "Building a Windows NT 4 Internet Server", 1996, p. 203.

The system disclosed in *Duvall* may be implemented on a server and that it uses an API (see column 10, lines 59-63), but *Duvall* does not specifically disclose that it uses ISAPI.

Oliver states that ISAPI (which stands for Internet Server API), which is an API native to the Microsoft® Internet Information Server, allows programmers to create server applications that take advantage of the web server and is tightly linked to the operating system.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use a reliable and well-supported API such as the Application/Control Number: 09/437,584 Page 5

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Microsoft® ISAPI, as disclosed in *Oliver*, when implementing the system disclosed by *Duvall* on a Windows NT server.

Response to Arguments

- 9. Applicant's arguments directed to the previous rejections under 35 U.S.C. 101 are acknowledged. The amendments to the claims add limitations that the descriptive functional material, which is necessary for the efficient function of the disclosed invention, are to be on computer-readable media. All claims now teach to statutory subject matter.
- 10. Applicants arguments directed to the previous rejections under 35 U.S.C. 102 and 35 U.S.C. 103 are acknowledged.

As per claims 1-25, applicant's arguments are not found to be persuasive. In view of the specification of the instant application, attack patterns can only be defined as being undesired strings that are intended for the web server. Although the specification of the instant application discloses several different kinds of attack patterns, those teachings cannot be viewed as limitations. All types of such strings that are claimed (URL's and http verb requests) are anticipated by *Duvall*.

The mechanism by which such strings are screened out disclosed by *Duvall* anticipates all of the claimed limitations. Duvall processes strings in the claimed

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manner; applicant's alleged difference is in the subjective intent of the creator of the strings rather than in the content or processing of the strings.

As per claims 26-31, applicant's arguments are not found to be persuasive. The claimed matter constitutes statutory subject matter if and only if it is viewed in the context of the disclosed invention as a whole; the invention disclosed by *Duvall* stores strings in the claimed manner for use in a server-based string screening apparatus, and therefore anticipates the storing of string patterns in the invention of the instant application.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew E. Heneghan, whose telephone number is (703) 305-7727. The examiner can normally be reached on Monday-Thursday from 8:00 AM - 4:00 PM Eastern Time. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse, can be reached on (703) 308-4789.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, DC 20231

Or faxed to:

(703) 872-9306

Hand-delivered responses should be brought to Crystal Park 2, 2121 Crystal Drive, Arlington, VA 22202, Fourth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

MEH

November 25, 2003

GREGORY MORSE

SUPERVISORY PATENT EXAMINER

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